

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup>:</b> <b>C12N 5/00, 15/00, C12Q 1/02</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 99/03974</b> <b>(43) International Publication Date:</b> 28 January 1999 (28.01.99)
<b>(21) International Application Number:</b> PCT/US98/14667 <b>(22) International Filing Date:</b> 15 July 1998 (15.07.98) <b>(30) Priority Data:</b> 60/052,588 15 July 1997 (15.07.97) US <b>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application</b> US 60/052,588 (CIP) Filed on 15 July 1997 (15.07.97) <b>(71) Applicants (for all designated States except US):</b> THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; Office of Technology Transfer, Fifth floor, 1111 Franklin Street, Oakland, CA 94607 (US). AURORA BIOSCIENCES CORPORATION [US/US]; 11010 Torreyana Road, San Diego, CA 92121 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> ZUKER, Charles, S. [US/US]; 4778 Thurston Place, San Diego, CA 92130 (US). MENDLEIN, John, D. [US/US]; 680 Neptune Avenue, Encinitas, CA 92024 (US). SUN, Humei [CN/US]; Apartment B-2, 9545 Genesee Avenue, San Diego, CA		<b>(92121 (US). TSUNODA, Susan [US/US]; 3420 Lebon Drive #3107, San Diego, CA 92122 (US). SIERRALTA, Jimena [CL/US]; 4025 Aragon Drive, San Diego, CA 92115 (US).</b> <b>(74) Agent:</b> HAILE, Lisa, A.; Fish & Richardson P.C., Suite 1400, 4225 Executive Square, La Jolla, CA 92037 (US). <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> COMPOSITIONS AND METHODS FOR IDENTIFYING MODULATORS OF TRANSDUCISOMES, A NEW CLASS OF THERAPEUTIC TARGETS  <b>(57) Abstract</b>  The invention provides cells and methods for identifying modulators of signal transduction, based on transducisome proteins that coordinate and assemble many types of signal transduction proteins. A transducisome is a PDZ domain containing protein that binds at least one signal transduction protein or a PDZ domain containing protein with at least one signal transduction protein bound. Examples of transducisome proteins include INAD, GRIP and other recently identified multi-PDZ domain proteins. Examples of signal transduction proteins include GPCRs, tyrosine kinase receptors, tyrosine phosphatase receptors, ion channels, phospholipases, adenylate cyclases, kinases and G-proteins. Also provided are methods for identifying modulators of signal transduction, proteins (and polynucleotides encoding the same) corresponding to transducisomes, modified transducisomes or defective transducisomes to use in assays of signal transduction, and a screening assay system for detecting protein-protein interactions.		

**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Larvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece			TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
CM	Cameroon	KR	Republic of Korea	PL	Poland		
CN	China	KZ	Kazakstan	PT	Portugal		
CU	Cuba	LC	Saint Lucia	RO	Romania		
CZ	Czech Republic	LI	Liechtenstein	RU	Russian Federation		
DE	Germany	LK	Sri Lanka	SD	Sudan		
DK	Denmark	LR	Liberia	SE	Sweden		
EE	Estonia			SG	Singapore		